Decision 00-08-020 August 3, 2000

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Investigation for the purpose of establishing a list for the fiscal years 2000-2001 and 2001-2002 of existing and proposed crossings at grade of city streets, county roads, or state highways in need of separation, or projects effecting the elimination of grade crossings by removal or relocation of streets or railroad tracks, or existing separations in need of alterations or reconstruction in accordance with Section 2452 of the Streets and Highways Code.

Investigation 99-07-001 (Filed July 8, 1999)

(See Appendix A for Appearances.)

Table of Contents

Title	Page
OPINION ESTABLISHING PRIORITY LIST FOR YEARS 2000-2001	
AND 2001-2002	2
Summary	2
Procedural Matters	
Background	3
Total Funds Available	
Maximum Allocation Per Project	5
Formulas To Evaluate Projects	6
Multiple Crossing Project Evaluation	
Disqualification, Exclusion, and Withdrawal of Projects	
Disputed Scoring Of Projects	7
City of Redding	
Kern County Standard Road Project	8
City of Torrance	
1. Blocking Delay	8
2. Cost of Project	
Priority List Adopted	10
New Procedure To Establish Priority List	10
Formula Revision	11
Comments on Proposed Decision	13
Findings of Fact	13
Conclusions of Law	15
ORDER	16

APPENDIX A APPENDIX B APPENDIX C

OPINION ESTABLISHING PRIORITY LIST FOR YEARS 2000-2001 AND 2001-2002

Summary

In this proceeding, we resolve three major issues:

- 1. We establish the Priority List for the grant of state funds to construct, reconstruct or remove grade separations in Year 2000-2001 in accordance with the current formula.
- 2. We establish a process by which the Priority List is amended for the Year 2001-2002 in accordance with the current formula.
- 3. Finally, we also establish a procedure to afford parties an opportunity to raise issues regarding the revisions of the formula by which the Priority List is established. Namely, we order that the Commission Rail Safety and Carriers Division (Staff) shall conduct workshops in an attempt to achieve a consensus on proposed revisions to the formula by which we rank projects. Staff shall report on the status of workshops in the proceeding to establish the Priority List for Year 2002-2003.

We also rescind previously issued Decision (D.) 00-06-078.

Procedural Matters

The order instituting investigation (OII) in this proceeding instructed applicants to submit nominations for the Priority List on or before October 15, 1999. In response, the Commission received 68 nominations.

Prehearing conferences (PHCs) were held in Los Angeles and San Francisco on September 20 and 21, 1999, respectively.

On October 20, 1999, the assigned Commissioner issued a Scoping Memo and Ruling affirming the preliminary "quasi-legislative" category of this proceeding, naming the assigned Administrative Law Judge (ALJ) as the presiding officer in any evidentiary hearing on adjudicative facts, outlining two issues and setting the schedule. The two issues designated for resolution were:

(1) Whether the formulas used to establish the Priority List should be revised; and (2) In what order should the nominated projects be ranked on the Priority List.

On January 3, 2000, the assigned Commissioner amended the Scoping Memo to delay resolution of the first issue—formula revision-- until the Grade Separation Program proceeding in 2001-2002. We affirm the assigned Commissioner's determination.

Evidentiary hearings on adjudicative facts were held in Los Angeles and San Francisco on February 22-23 and 28-29, 2000, respectively, where Staff, interested parties, and nominees appeared.

On June 22, 2000 D.00-06-078 was issued in the proceeding resolving the same issues as addressed herein and in the same manner. An Executive Director's Order correcting a "clerical error" was issued the same day which removed one paragraph of text. Subsequently it was determined that some confusion existed regarding the text the Commission voted on and the appropriateness of the Executive Director's order. On July 20, 2000 the commission voted to rescind the Executive Director's Order (D.00-07-054) and decided to place the original order back on the agenda. D.00-06-078 is hereby rescinded and its decision number cancelled.

Background

Section 2450 *et seq.* of the California Streets and Highways (S&H) Code establishes the Grade Separation Program to fund projects throughout the state that will eliminate hazardous grade crossings. Each year, the California Transportation Commission (CTC) distributes a total of \$15 million to eligible projects (S&H Code § 190) in the priority established by this Commission. Therefore, prior to July 1, the Commission establishes a Priority List of eligible

separation projects throughout the state most urgently in need of construction pursuant to S&H Code § 2452.

In Decision (D.) 98-06-074 (I.97-07-014), the Commission indicated that the total fund of \$15 million was weefully inadequate to fund projects totaling \$600 million that were direly needed to protect the public. As of the date of this decision this fund has not been increased.

The Commission Priority List may contain projects for the construction of new grade crossings, alteration of existing separations, or projects that eliminate crossings by removing or relocating streets or railroad tracks. For a project that eliminates an existing crossing or alters or reconstructs an existing grade separation, an allocation of 80% of the estimated cost of the project is made, with the local agency and railroad each contributing 10%. For a project that plans a grade separation of a proposed new crossing (where currently there is no existing crossing), an allocation of 50% of the estimated project costs is made, with the remaining 50% contributed by the local agency.

Total Funds Available

The California Department of Transportation (Caltrans) annually receives \$15 million for allocation to projects on the Priority List. However, funds allocated by Caltrans may be held in abeyance for years due to delayed projects, causing other eligible projects to remain without adequate funding. All projects on the Priority List are categorized as being urgently in need of construction. Many of them are ready to commence construction as soon as Caltrans makes an allocation. Since funds for grade separation projects are scarce, this year Caltrans

has established a new policy regarding project delays. Caltrans is reviewing uncompleted projects allocated funds in the prior years to ascertain whether they are ready to commence construction. Allocations to projects in a prior year that are delayed indefinitely will revert to the fund to be distributed to other eligible, timely projects.

Caltrans has identified two delayed projects in the City of Fresno where approximately \$9.5 million will revert to the fund and be reallocated. This amount, added to the annual \$15 million grant, totals approximately \$24.5 million to be allocated in fiscal year 1999-2000. At the hearing, Caltrans estimated that four new projects will be funded in fiscal year 1999-2000. On June 7, 2000, Caltrans notified the Commission that the following four projects, with their current ranking on the Priority List in this proceeding, had been funded from 1999 funds: City of Monclair, Ramona Avenue (#11); Kern County, Seventh Standard Road (#14); City of San Buenaventura, Auto Center Drive/Johnson Drive (#44); and Fresno County, Chestnut Avenue (#46). Accordingly, staff removed these projects from the Priority List in this proceeding. Caltrans anticipates a total of \$15 million in state funding will be allocated in this proceeding (July 1, 2000-June 30, 2001).

Maximum Allocation Per Project

In compliance with S&H Code § 2454(g), the total allocation for a single project shall not exceed \$5 million without specific legislative authorization, except that the amount for a single project allocation may be increased to either: the amount that includes the federal construction cost index increase since 1976; or, an amount that does not exceed one-third of the total funds appropriated for grade separation projects. The Commission Staff uses the Price Trends for Federal-Aid Highway Construction as the federal construction cost index. For

1999, the second quarter composite index is 143.4. The 1976 composite index is 56.3. Based on these numbers, the allocation can be increased to \$12.7 million ([143.4/56.3] *\$5 million), if this allocation does not exceed one-third of the funds available. Since 1974, the fund has remained at \$15 million. One-third of this fund is \$5 million. Therefore, the controlling limit is based on available funds. For the purpose of this investigation, the maximum allocation for a single project is \$5 million.

Formulas To Evaluate Projects

In 1990, the Commission established the two formulas by which it will evaluate and rank projects for the Priority List. (D.90-06-058). Appendix B contains the formulas which are used to evaluate projects in this proceeding.

Multiple Crossing Project Evaluation

Staff evaluates projects involving the closure and/or separation of multiple crossings in the same manner as single crossing projects. However, Staff reviews the commonalties among the crossings and proximity to each other. Any portion of a multiple project that is clearly separable is treated as a separate nomination. Point allocation for multiple crossing projects are determined by adding the vehicle or train volumes, the crossing geometrics, accident history, and/or blocking delays of each crossing.

Disqualification, Exclusion, and Withdrawal of Projects

In its Staff report and during the hearing, Staff requested that the following projects be excluded because they are entirely light rail: the three projects of the County of Santa Clara, and the Bradshaw Road project of the Sacramento Regional Transit District. Staff requested to exclude the following nominations because the nominees failed to appear at the hearing, a requirement of this proceeding pursuant to the OII: California City, Sonoma, Rancho

Cucumonga and two projects of San Bernardino County. In addition, Staff requested to exclude the Anaheim Street project of the Port of Long Beach, which was already under construction (S&H Code § 2460.7). In a ruling on March 22, 2000, the presiding officer granted Staff's requests to exclude these projects from the Priority List.

Disputed Scoring Of Projects

During the hearing, several nominees disputed Staff's assignment of points for various categories in scoring the projects. Staff assigned points to projects for the categories and criteria, which are input into one of two formulas above in order to derive a total score for the project. The presiding officer preliminarily resolved the adjudicative facts as described below. We affirm the presiding officer's rulings.

City of Redding

At the hearing in San Francisco, the City of Redding challenged Staff's rating for the hazard factor of its South Street project. Vehicles approaching this crossing are forced to wait on the railroad tracks in order to make a left turn because the traffic in this location backs up to the corner. Therefore, Robert M. Barton, witness for the City of Redding, believes a greater rating should be given due to this extreme hazard. Staff did not allocate any points in the "Other Factor (OF)" category for this hazard.

The presiding officer ruled that this condition of traffic back-up which leaves cars waiting or stranded on railroad tracks creates the likelihood of a serious and unavoidable accident in the event of a train passing through these crossings. At the hearing, several witnesses testified about this same traffic back-up problem that currently exists at other proposed project sites. Therefore, the presiding officer ordered revisions to the City of Redding and other similar

projects commensurate with the hazard this back-up condition creates. Staff revised its evaluation of this and similar projects by adding one point to the OF. (Appendix C, Attachment 1, pp. 1-3.)

Kern County Standard Road Project

At the hearing in San Francisco, Barton challenged Staff's rating of the crossing geometrics of Kern County's Standard Road project. Barton believes the 135% angle turn which causes trucks to hit the railroad crossing arm 2-3 times a week when making the turn warrants a greater rating. Staff rated this factor as 8.72 based upon the description of the project.

Based upon comparable ratings in other projects with hazardous conditions, the presiding officer concurred with Staff's rating.

City of Torrance

At the hearing in Los Angeles, Staff opposed the blocking delay (BD) and cost estimate factors in the proposed Del Amo Boulevard project submitted by the City of Torrance (the City). The presiding officer's ruling is discussed below.

1. Blocking Delay

BD is the average wait and traffic delay created by a train passing through a railroad crossing. D.90-06-058 mandates that BD be measured at a crossing based upon reliable data supplied for similar grade crossings in close proximity to the one proposed. The City contends there is no comparable crossing near the proposed site and the proposed site has no existing crossing, therefore, it used the traffic delays at the proposed site of the train traffic in an adjacent switching yard. However, Staff points out that these trains in the switching yard create delays that exceed 10 minutes, a violation of G.O. 135, which will not be allowed at the regulated crossing once it is completed. At the hearing, Staff recommended that we exclude delays over 10 minutes used to

compute the average delay. Alternatively, Staff recommended that the City perform a traffic delay study at a comparable site or that five minutes be used instead of the original nine-minute average blocking delay submitted in the nomination. The City contends there is no comparable site and will not agree to perform a study.

The presiding officer concluded that a five-minute average BD was appropriate.

2. Cost of Project

Staff contends that the qualifications for an eligible project contained in S&H Code § 2450(b) require that the project cost must include all approaches, ramps, connections, drainage and other construction required to make the grade separation operable and to effect the separation of grades.¹ The City contends the cost to acquire the right-of-way and construct a new roadway are not a necessary part of this proposed grade separation project. However,

- (1) The alteration or reconstruction of existing grade separations.
- (2) The construction of new grade separations to eliminate existing or proposed grade crossings.
- (3) The removal or relocation of highways or railroad tracks to eliminate existing grade crossings.

¹ § 2450(b) "Project" means the grade separation and all approaches, ramps, connections, drainage, and other construction required to make the grade separation operable and to effect the separation of grades. Such grade separation project may include provision for separation of nonmotorized traffic from the vehicular roadway and the railroad tracks. If a separation of nonmotorized traffic is not to be included in a project, there shall be an affirmative finding that the separation of nonmotorized traffic is not in the public interest. On any project where there is only one railroad track in existence, the project shall be built so as to provide for expansion to two tracks when the Director of Transportation determines that the project is on an existing or potential major railroad passenger corridor. Such project may consist of:

Staff points out that these costs were included in applications for funding in two prior years. Moreover, Staff contends that this proposed grade separation will not be operable without the additional road construction.

The map of this project indicates that this grade separation will be built on currently vacant land between the ends of two city streets. In order to enter and exit the grade separation, the road must be extended to meet both ends of the grade separation. Therefore, the presiding officer concluded that the project is not operable without this additional road construction and this cost must be included in the total project cost.

Priority List Adopted

No party disputed the Priority List revised in accordance with the presiding officer's ruling. After receipt of Caltrans notification that four additional projects on this list were funded from existing funds, the list was revised to delete these projects. Therefore, we adopt Staff's revised Priority List, Exhibit 73, attached as Appendix C.

New Procedure To Establish Priority List

Unlike past years, this proceeding has been changed from a two-year to a one-year process due to statutory time limitations that were enacted in Senate Bill (SB) 960, effective January 1, 1998. Under SB 960, quasi-legislative proceedings, such as this, must be completed in 18 months. However, this statutory time period does not allow adequate time in the second year to issue a second formal Commission decision. Therefore, we notified all known interested parties in the OII in this proceeding of the need for a new one year procedure to

establish a Priority List.² Prior to this proceeding, in D.99-06-035, we outlined several procedural options: to open a new docket to establish the Priority List for each year of the two-year period, or to certify the Priority List for both years in one decision the first year. After two years experience in operating under SB 960, we deem the latter option as the less burdensome for parties and the Commission. We will adopt a Priority List for a two year period and authorize Staff to revise the Priority list after the first year based upon input from Caltrans.

Formula Revision

At the PHC, Robert M. Barton of DeLeuw, Cather and Company representing the City of Bakersfield and Kern County, proposed revisions to the existing formula by which projects are prioritized. As requested, he submitted in writing his proposed revisions to the formulas. Five parties, including the Commission Rail Safety & Carriers Division (Staff), filed timely comments.

Barton recommends that accident history and blocking delay be added as part of the "Special Conditions Factor" instead of a multiplier in the current formulas and that a "Readiness Factor" be added. Four parties agree that the existing formulas need revision, yet each party offers a variance of Barton's proposal. All four parties request that a workshop be held to discuss the

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² Including all cities, counties, railroads, the League of California Cities, the County Board of Supervisors Association, CTC, California Department of Transportation, Light Rail Transit Agencies and known interested parties.

³ H. Richard Neill of Moffatt & Nichol Engineers, Edward Ohannesian representing Fresno County Public Works Department, O. Gary Plunkett, P.E., Director of Tehama County Public Works and Rick Raives, P.E., City Engineer for the City of San Buenaventura.

appropriate formula revisions. Edward Ohannesian, Senior Engineer for the Fresno County Public Works Department, offers to host the workshop.

A fifth party, John Clifton, while testifying during the hearing regarding the Wine Train Project, recommended that projects be ranked on the Priority List by need, safety, and hazard and that the Commission become more involved in the communities of proposed projects.

Staff, on the other hand, believes Barton's proposal was considered at length in Investigation 89-09-021 when the Commission adopted the present priority formulas in D.90-06-058. Staff recommends that the Commission review these proposals after July 1, 2000 given the short time framework to complete the priority list.

Barton's proposal and the parties' comments on his proposal require review and analysis of the historical basis of the existing priority formulas as well as evaluation of the effectiveness of the existing formulas since they were established in 1990. The schedule outlined in the scoping memo would not accommodate the time Staff obviously needs to assess the existing formulas, research Barton's proposal, hold workshops, and take any other necessary steps to attempt to reach a resolution on any revisions.

In addition, a wider group of potential parties interested in this proceeding had no notice of the proposed new formulas and existing parties had no notice prior to submitting nominations for the two-year list process to be established in this proceeding. It would be unfair to establish a Priority List for two years, as we had planned, and change the formulas for the established list in the second year. Therefore, this issue was removed from this to the next such proceeding. We herein instruct Staff to provide notice to all cities, counties and interested parties and conduct a workshop on the proposed revisions to the priority

formulas, submit a workshop report and make its recommendations to the Commission prior to the OII in the next Grade Separation Program proceeding.

Comments on Proposed Decision

The proposed decision of Commissioner Wood and ALJ Bennett in this matter was mailed to the parties in accordance with Section 311(d) of the Public Utilities Code and Rule 77.1 of the Rules of Practice and Procedure. No comments were filed. However, the proposed decision was revised to include updated funding information from Caltrans. Accordingly, Appendix C, the Revised Priority List, was corrected to exclude the four funded projects.

Findings of Fact

- 1. Each year the Commission is required pursuant to S&H Code § 2452 to establish a Priority List for the Grade Separation Program to fund projects throughout the state that will eliminate hazardous grade crossings.
- 2. On July 8, 1999, in its order instituting the investigation in this proceeding, the Commission provided written notice to all cities, counties, railroads, the League of California Cities, the County Board of Supervisors Association, CTC, Caltrans, Light Rail Transit Agencies and known interested parties that the procedure of issuing a Commission decision each year for two years would change due to newly effective time limits in SB 960. No party commented on this revision.
- 3. Notice of this proceeding was also published in the Commission's Daily Calendar on July 9, 1999.
- 4. PHCs were held in Los Angeles and San Francisco on September 20 and 21, 1999, respectively.
- 5. The procedure of certifying in one decision a Priority List for the first fiscal year of the two-year period, and authorizing Staff to revise the list for the second

year of this period is the most efficient and less burdensome procedure under SB 960 for this two-year Priority List process.

- 6. EHs on adjudicative facts were held in Los Angeles and San Francisco on February 22-23 and February 28-29, 2000, respectively, where the Commission Rail Safety and Carriers Division Staff, interested parties, and nominees appeared.
- 7. At the evidentiary hearing, the presiding officer preliminarily resolved all adjudicative facts disputed by the parties. The preliminary resolution of those facts is reasonable.
- 8. During the fiscal year 2000-2001, Caltrans will notify Staff of projects to be deleted from the Priority List for Year 1 herein established. After these projects are removed, the remaining projects in the same priority form the Priority List for Year 2.
- 9. No party opposed establishing the Priority List attached as Appendix C, which is revised pursuant to the presiding officer's ruling on disputed adjudicative facts.
- 10. Parties commenting on Robert M. Barton's proposed formula revisions were unable to agree that revisions were necessary or what these revisions should be.
- 11. The commenting parties requested that a workshop be held to discuss the proposed revisions to the formulas and attempt to either agree or narrow the disputed issues.
- 12. Due to time constraints in this proceeding and Staff's request that studies on the impact of the existing formulas be conducted, the assigned Commissioner deferred resolution of the proposed formula revisions until after a workshop is held.

- 13. D.00-06-078 was issued in the proceeding on June 22, 2000 and resolved on the substantive issues presented in the same manner as the present decision.
- 14. An Executive Director Order was issued on the same day to correct a clerical error, removing one paragraph of text.
- 15. It was subsequently determined that confusion may have existed as to what text the Commission had voted on.
- 16. On July 20, 2000 the Executive Director's Order was rescinded and the Commission requested the order of June 22, 20000 be brought before the Commission again for a new vote.
 - 17. Parties may have relied upon the effective date of D.00-06-078.

Conclusions of Law

- 1. The assigned Commissioner's determination to defer resolution of revisions to the formulas used to prioritize projects in this proceeding should be affirmed.
- 2. The presiding officer's resolution of disputed adjudicative facts should be affirmed.
- 3. The revised Priority List, attached as Appendix C, should be established as the list of projects most urgently needed to receive Grade Separation Program funds for the fiscal year July 1, 2000 to June 30, 2001 (Year 1).
- 4. The Staff should be ordered to revise the Priority List for Year 1 established in this proceeding based upon revisions submitted by Caltrans during the fiscal year July 1, 2001 to June 30, 2002 to establish the Priority List for Year 2.
- 5. The ranking criteria established in past Grade Separation Program proceedings for consideration of projects with the same priority index number, and projects of otherwise equal priority where the city or county contributes 50% of the cost should be applied to the Priority List for Year 2.

- 6. The Staff should be ordered to convene a workshop after 60 days notice to all cities, counties, and known interested parties to discuss the proposals presented in this proceeding to revise the formulas by which the Commission ranks projects for the Priority List in proceedings such as this. Staff should be ordered to provide a written report on the outcome of the workshop in time to include this report in the order instituting the next Grade Separation Program proceeding for 2002-2003.
- 7. The order in this proceeding should be effective on the date signed so that our statutory deadline of issuing an order by July 1, 2000 may be met.
 - 8. D.00-06-078 should be rescinded.
- 9. Activities undertaken by parties in reliance on the effective date of D.00-06-78 should be given full effect as though D.00-06-078 remained in effect since this present decision supercedes it without any changes in its major issue determinations.
 - 10. This proceeding should be closed.

ORDER

IT IS ORDERED that:

- 1. The assigned Commissioner's determinations and the presiding officer's rulings during this proceeding are affirmed.
- 2. The Priority List, attached as Appendix C, is established as the list of projects most urgently in need of construction for the fiscal year July 1, 2000 to June 30, 2001 (Year 1).
- 3. Prior to July 1, 2001, the Rail Safety and Carriers Division (Staff) will revise the Priority List established in this proceeding as directed by the California

Department of Transportation (Caltrans) to establish the Priority List for the fiscal year July 1, 2001 to June 30, 2002 (Year 2).

- 4. For projects on the Priority List for Year 2, with regard to any projects having the same priority index number, Staff will first consider projects which separate or eliminate existing grade crossings, then projects which alter or reconstruct existing grade separations, and finally projects to construct new grade separations. Within each of these categories, Staff will first consider the lowest cost project so that the maximum number of projects may be accomplished with available funds.
- 5. For projects on the Priority List for Year 2, Staff will give greater priority to grade separation projects of otherwise equal priority for which the amount contributed by a city or county is equal to or greater than 50% of the cost of the project.
- 6. Prior to the institution of the next Grade Separation Program proceeding for the Year 2002-2003, the Staff will convene a workshop after a minimum of 60 days notice to discuss the proposals presented in this proceeding to revise the formulas by which the Commission ranks projects for the Priority List. Staff will serve notice of this workshop on all parties in this proceeding, all cities, counties, and railroads, the League of California Cities, the County Board of Supervisors Association, the California Transportation Commission, the California Department of Transportation, all Light Rail Transit Agencies and all known interested parties. Staff will provide a written report on the outcome of the workshop in time to include this report in the order instituting the Grade Separation Program proceeding for Year 2002-2003.
- 7. The Executive Director shall furnish a certified copy of this decision to Caltrans and the California Transportation Commission prior to July 1, 2000.
 - 8. Decision (D.) 00-06-078 is rescinded and its decision number cancelled.

I.99-07-001 CXW/PAB/abw

9. Since this order supercedes and replaced D.00-06-078, is identical to D.00-06-078 in all significant determinations, and since parties may have relied upon the effective date of D.00-06-078, the present order is effective today but all activities occurring between June 22, 2000 and the date of issuance of this present offer shall be deemed in compliance with this order if they would have been in compliance with D.00-06-078.

I.99-07-001 CXW/PAB/abw

10. This proceeding is closed.

This order is effective today.

Dated August 3, 2000, at San Francisco, California.

LORETTA M. LYNCH
President
HENRY M. DUQUE
JOSIAH L. NEEPER
RICHARD A. BILAS
CARL W. WOOD
Commissioners

APPENDIX A (APPEARANCES)

Last Update on 28-MAR-2000 by: LIL I9907001 LIST

Page 1

****** APPEARANCES ********

Roy V. Ketring, Iii Assistant Director - Public Projects BNSF 740 EAST CARNEGIE DRIVE SAN BERNARDINO CA 92408-3571 (909) 386-4470

roy.ketring@bnsf.com

For: MARIPOSA ROAD-BURLINGTON NORTHERN & SANTA FE RAILWAY COMPANY

O.J. Solander Attorney At Law CALTRANS PO BOX 942874-MS-57 1120 N STREET SACRAMENTO CA 95821-1438 (916) 654-2630

o.j.solander@dot.ca.gov

For: STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS)

Stephen R. Cameron Attorney At Law CALTRANS PO BOX 1438 MS 57 SACRAMENTO CA 95812-1438 (916) 654-2630

stephen.r.cameron@dot.ca.gov

For: CALTRANS

Jacques La Rochelle Engineering Services Manager CITY OF BAKERSFIELD 1501 TRUXTUN AVE BAKERSFIELD CA 93301 (661) 326-3574

Paul Toor City Engineer CITY OF BANNING 99 EAST RAMSEY PO BOX 998 BANNING CA 92220-0998 (909) 937-0200

Daniel J.V. Greeley Director Of Engineering Services CITY OF CAMARILLO 601 CARMEN DR CAMARILLO CA 93011 Roc Pulido Assistant Traffic Engineer CITY OF CAMARILLO 601 CARMEN DRIVE CAMARILLO CA 93010 (805) 388-5340

John P. Lippitt Director Of Public Works CITY OF CHULA VISTA 276 FOURTH AVENUE CHULA VISTA CA 91910 (619) 691-5294

Samir M. Nuhaily CITY OF CHULA VISTA 276 FOURTH AVENUE CHULA VISTA CA 91710 (619) 691-5259

snuhaily@ci.chula-vista.ca.us

For: City of Chula Vista

Byron Woosley City Manager CITY OF COACHELLA 1515 SIXTH STREET COACHELLA CA 92236 (760) 398-4202

Anne Palatino Transportation Planner CITY OF CORONA 815 W. SIXTH STREET CORONA CA 92882-3238 (909) 736-2235

For: CITY OF CORONA/MCKINLEY GRADE SEPARATION

Gerald F. Helt City Engineer CITY OF DELANO PO BOX 939 DELANO CA 93216 (661) 323-6045

Helt@lightspeed.net

Anthony M. La
City Traffic Engineer
CITY OF DOWNEY
11111 BROOKSHIRE AVENUE
DOWNEY CA 90241-7016
(562) 904-7108
ala@downey.ca.org

Martin Boyle Transportation Engineer CITY OF FREMONT 39550 LIBERTY STREET FREMONT CA 94538 (510) 494-4684

mboyle@ci.fremont.ca.us

Rob Wilson City Engineer CITY OF FREMONT 39550 LIBERTY STREET FREMONT CA 94538 (510) 494-4723

Brent Salmi City Engineer CITY OF HERCULES 111 CIVIC DRIVE HERCULES CA 94547 (510) 799-8247

Erwin R. Blancaflor CITY OF HERCULES 111 CIVIC DRIVE HERCULES CA 94547 (510) 799-8242

eblancaflor@msn.com

For: LOCAL AGENCY REPRESENTATIVE (CITY OF HERCULES)

Amir Modarressi City Engineer CITY OF INDIO- DEPT OF PUBLIC WORKS PO DRAWER 1788 INDIO CA 92202 (760) 342-6530

Farideh E. Lyons Senior Transportation Analyst CITY OF IRVINE ONE CIVIC CENTER PLAZA IRVINE CA 92623-9575 (949) 724-6237

Violet Jakab City Engineer CITY OF LATHROP 16775 HOWLAND ROAD LATHROP CA 95330 (209) 858-2860 Mashi Hashemi CITY OF LOS ANGELES 650 S. SPRING ST STE 1200 LOS ANGELES CA 90014 (213) 847-5033

mhashemi@eng.ci.la.ca.us

For: VALLEY BLVD. GRADE SEPARATION

Arsen Mangasarian Supervising Transportation Planner CITY OF LOS ANGELES DEPT. OF TRANSPORTA 221 NORTH FIGUEROA ST., NO. 600 LOS ANGELES CA 90012 (213) 580-5427

Marilyn Stats Director Of Redevelopment/Public Works CITY OF MONTCLAIR PO BOX 2308 MONTCLAIR CA 91763 (909) 626-8571

Micharl C. Hudson CITY OF MONTCLAIR 5111 BENITO STREET MONTCLAIR CA 91763 (909) 625-9441

mhudson@ci.montclair.ca.us

Steve Williams CITY OF PALMDALE 708 E. PALMDALE BLVD. PALMDALE CA 93551 (661) 267-5300

swilliams@cityofpalmdale.org

For: City of Palmdale

Tom Horne CITY OF PALMDALE 708 E. PALMDALE BLVD. PALMDALE CA 93551 (661) 267-5300

thorne@cityofpalmdale.org

Mike Olivier Senior Civil Engineer CITY OF RANCHO CUCAMONGA PO BOX 807 10500 CIVIC CENTER DRIVE RANCHO CUCAMONGA CA 91729 (909) 477-2740

Ray Duryee **Transportation Coordinator** CITY OF REDDING PO BOX 496071 760 PARKVIEW AVE REDDING CA 96001 (530) 224-6114

Tom Boyd **Engineering Manager** CITY OF RIVERSIDE 3900 MAIN STREET **RIVERSIDE CA 92522** (909) 826-5575

btom@riverside.ca.us

Rick Raives City Engineer CITY OF SAN BUENAVENTURA PO BOX 99 **501 POLI STREET** VENTURA CA 93002 (805) 654-7870

rraives@ci.ventura.ca.us

Rajeev Batra Deputy Director Of Public Works CITY OF SAN JOSE **801 N FIRST STREET** SAN JOSE CA 95110 (408) 277-3236

Brett Dawson City Engineer CITY OF SHAFTER 336 PACIFIC AVENUE SHAFTER CA 93263 (661) 746-6361

Richard Perkins Senior Division Engineer CITY OF TORRANCE 3031 TORRANCE BLVD. 2ND FLOOR **TORRANCE CA 90503** (310) 618-2823

Caroline Quinn CITY OF WEST SACRAMENTO 1951 SOUTH RIVER ROAD WEST SACRAMENTO CA 95691 (916) 373-5854

caroline.quinn@ci.west-sacramento.ca.us

For: CITY OF WEST SACRAMENTO

Toby Wong Associate Civil Engineer CITY OF WEST SACRAMENTO 1951 SOUTH RIVER ROAD WEST SACRAMENTO CA 95691 (916) 373-5854

John R. Clifton 21 LEMON CT. NAPA CA 94558 (707) 252-7069

clif@napanet.net For: PRIVATE CITIZEN

Craig M. Pope Director, Road Department COUNTY OF KERN 2700 M STREET SUITE 400 **BAKERSFIELD CA 93301** (661) 862-8850

Ken Giovanetti Senior Civil Engineer COUNTY OF SONOMA 575 ADMINISTRATION DRIVE RM 117-A SANTA CLARA CA 95403 (707) 565-2231

Robert M. Barton DELEUW. CATHER & CO. 120 MARKET STREET, SUITE 850 SAN FRANCISCO CA 94530 (415) 495-6066 For: BAKERSFIELD, KERN COUNTY, REDDING

Mario Montes Project Manager FLUOR DANIEL INFRASTRUCTURE ONE FLOUR DANIEL DRIVE ALISO VIEJO CA 92698 (949) 349-7201 X2206

Mario.Montes@flour.com

Sam Erwin Ohannesian FRESNO COUNTY 2220 TULARE ST. 6TH FLOOR FRESNO CA 93721 (559) 262-4093 For: FRESNO COUNTY

Gerald F. Helt City Engineer HELT ENGINEERING, INC./CITY OF DELANO 2930 UNION AVE. BAKERSFIELD CA 93305 (661) 323-6045

helt@lightspeed.net

For: CITY OF DELANO

Curtis Ballantyne Attorney At Law HILL, FARRER & BURRILL ONE CALIFORNIA PLAZA 300 S. GRANT AVE., 37TH FLOOR LOS ANGELES CA 90071-3147 (213) 621-0814

William J. Wagner President HMH, INCORPORATED PO BOX 611510 SAN JOSE CA 95161-1510 (408) 487-2200

bwagner@hmh-engineers.com

For: CITY OF SAN JOSE

Douglas H. Mays L.D. KING, INC. SUITE 100 2151 CONVENTION CENTER WAY ONTARIO CA 91764 (909) 937-0200

ldking@primenet.com

For: CITIES OF MONTCLAIR, COACHELLA & BANING

William Winter Civil Engineer LA COUNTY DEPARTMENT OF PUBLIC WORKS 900 SOUTH FREMONT AVENUE ALHAMBRA CA 91803 (626) 458-3943

wwinter@dpw.co.la.ca.us

For: Los Angeles County

Greg Jaquez
Supervising Civil Engineering Assistant
LOS ANGELES COUNTY DEPT. OF PUBLIC WORKS
900 S. FREMONT AVENUE
PO BOX 1460
ALHAMBRA CA 91802-1460
(626) 458-3935

gjaquez@dpw.co.la.ca.us

For: LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

Keith Halvorson, Director Of Engineering MC GILL MARTIN SELF, INC. 1500 NEWELL AVENUE SUITE 700 WALNUT CREEK CA 94596 (925) 988-9188 For: SAN JOAQUIN COUNTY

Joe Baughman MK CENTENNIAL 5000 HOPYARD ROAD PLEASANTON CA 94550 (925) 460-5050

joe_baughman@mk100.com

For: SAN JOAQUIN COUNTY PUBLIC WORKS

H. Richard Neill MOFFATT & NICHOL ENGINEERS 250 W. WARDLOW ROAD LONG BEACH CA 92704 (562) 426-9551

dneill@moffattnichol.com

For: CITY OF IRVINE

Gary L. Rouse President, C.O.O. NAPA VALLEY RAILROAD COMPANY 800 EIGHTH STREET NAPA CA 94559 (707) 258-0504

railroad@winetrain.com

For: NAPA VALLEY RAILROAD/NAPA VALLEY WINE TRAINS

Vincent Dedomenico Chairman NAPA VALLEY WINE TRAIN, INC. 1275 MCKINSTRY STREET NAPA CA 94559 (707) 253-2160

Robert M. Barton
PARSONS TRANSPORTATION GROUP
120 HOWARD STREET
SAN FRANCISCO CA 94105
(415) 495-6060
For: BAKERSFIELD SEPR. OF GRADE DIST.; CITY OF REDDING

Ronald F. Ruettgers
Consultant Engineer
RUETTGERS & SCHULER CE
1801 21ST STREET, SUITE 4
BAKERSFIELD CA 93301
(661) 327-1969

For: COUNTY OF KERN, CITY OF SHAFTER, CITY OF

Michael Wiley SACRAMENTO REGIONAL TRANSIT DISTRICT PO BOX 2110 SACRAMENTO CA 95812-2110 (916) 321-2811

mwiley@sacrt.com

For: PUC GRADE SEPARATION PRIORITY

Teri Sheets
Senior Grants Analyst
SACRAMENTO REGIONAL TRANSIT DISTRICT
PO BOX 2110
SACRAMENTO CA 95812-2110
(916) 321-2868

Kathleen Robles SAN BERNARDINO CO. DEPT. TRANSPORTATION 825 E. 3RD STREET SAN BERNARDINO CA 92415 (661) 387-2724 For: SAN BERNARDINO COUNTY DEPARTMENT OF TRANSPORTATION

Patrick J. Mead Assistant Director SAN BERNARDINO COUNTY-TFCD 825 E 3RD STREET SAN BERNARDINO CA 92415-0835 (909) 387-2799

Manuel Solorio Civil Senior Engineer SAN JOAQUIN COUNTY 1810 EAST HAZELTON AVE STOCKTON CA 95205 (209) 468-3038

Sukh S. Chahal Senior Civil Engineer SAN JOAQUIN COUNTY 1810 EAST HAZELTON AVENUE STOCKTON CA 95205 (209) 468-3035

Nan A. Vaughan SANTA CLARA COUNTY ROADS & AIRPORTS 101 SKYPORT DRIVE SAN JOSE CA 95127 (408) 573-2408

nan729@aol.com

For: SANTA CLARA COUNTY ROADS & AIRPORTS

BAKERSFIELD

Rollo Parsons Manager, Design And Construction SANTA CLARA COUNTY-ROADS AND AIRPORTS 101 SKYPORT SAN JOSE CA 95110 (408) 573-2482

Lou Cluster
Public Projects Engineer
SCRRA METROLINK
700 SOUTH FLOWER ST. 26TH FLR.
LOS ANGELES CA 90017-4101
(213) 452-0217
clusterl@scrra.net

Emily Landin-Lowe STATE OF CALIF. DEPT OF TRANSPORTATION PO BOX 23660 OAKLAND CA 94623-0660 (510) 286-5124 emily landin-lowe@dot.ca.gov

For: CITY OF FREMONT

O.J. Solander Attorney At Law STATE OF CALIF. DEPT OF TRANSPORTATION 1120 N STREET SACRAMENTO CA 95812-1438 (916) 654-2630 For: CALTRANS

Gary Plunkett
TEHAMA COUNTY
9380 SAN BENITO AVENUE
GERBER CA 96035
(530) 385-1462

plunkett@tco.net For: TEHAMA COUNTY

Jerry Brownfield Deputy Director Of Public Works TEHAMA COUNTY PUBLIC WORKS 9380 SAN BENITO AVENUE GERBER CA 96035 (530) 385-1462

E D Allen Chief Harbor Engineer THE PORT OF LONG BEACH PO BOX 570 LONG BEACH CA 90801-0570 (562) 590-4139

****** STATE EMPLOYEE *******

Patricia A. Bennett Administrative Law Judge Division RM. 5016 505 VAN NESS AVE San Francisco CA 94102 (415) 703-2271

pab@cpuc.ca.gov

Robert Futrell Rail Safety and Carriers Division AREA LOSA 320 WEST 4TH STREET SUITE 500 Los Angeles CA 90013 (213) 576-7088

ref@cpuc.ca.gov

Robert Futrell Rail Safety and Carriers Division RM. 2-B 505 VAN NESS AVE San Francisco CA 94102 (415) 703-2665

ref@cpuc.ca.gov

Marc E. Gottlieb Rail Safety and Carriers Division AREA 2-B 505 VAN NESS AVE San Francisco CA 94102 (415) 703-2230

mar@cpuc.ca.gov

Thomas P. Hunt Rail Safety and Carriers Division 320 WEST 4TH STREET SUITE 500 Los Angeles CA 90013 (213) 576-7089

tph@cpuc.ca.gov

Tack S. Joe Rail Safety and Carriers Division AREA 2-B 505 VAN NESS AVE San Francisco CA 94102 (415) 703-2280

tsj@cpuc.ca.gov

Kenneth L. Koss Rail Safety and Carriers Division RM. 2102 505 VAN NESS AVE Alex Lutkus Rail Safety and Carriers Division RM. 2101 505 VAN NESS AVE San Francisco CA 94102 (415) 703-2069

alx@cpuc.ca.gov

Rosa Munoz Rail Safety and Carriers Division AREA LOSA 320 WEST 4TH STREET SUITE 500 Los Angeles CA 90013 (213) 576-7078

rxm@cpuc.ca.gov

Barbara Ortega Executive Division RM. 500 320 WEST 4TH STREET SUITE 500 Los Angeles CA 90013 (213) 576-7070

bho@cpuc.ca.gov

Vahak Petrossian Rail Safety and Carriers Division RM. 5109 320 WEST 4TH STREET SUITE 500 Los Angeles CA 90013 (213) 576-7077

vap@cpuc.ca.gov

3 RAIL SAFETY 2ND FLOOR CPUC

Tom Glover STATE OF CALIF., DEPT. OF TRANSPORTATION 1801 - 30TH STREET SACRAMENTO CA 95816 (916) 227-5203

tom_glover@dot.ca.gov

For: STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS)

Robert G. Webb Rail Safety and Carriers Division 770 L STREET, SUITE 1050 Sacramento CA 95814 (916) 327-3131

<u>clo@cpuc.ca.gov</u>

San Francisco CA 94102 (415) 703-1090

klk@cpuc.ca.gov

****** INFORMATION ONLY *******

Gregg Bragg CALIFORNIA HIGHWAY PATROL PO BOX 942898 SACRAMENTO CA 94289-0001

Jim M. Schroeter
City Engineer
CITY OF CALIFORNIA CITY
21000 HACIENDA BLVD.
CALIFORNIA CITY CA 93505
(760) 373-8661
For: CITY OF CALIFORNIA CITY

William Pagett Assistant City Engineer CITY OF PARAMOUNT 16400 COLORADO AVENUE PARAMOUNT CA 90723-5012 (562) 220-2020

Timm Borden CITY OF SAN JOSE 801 N. FIRST STREET, ROOM 308 SAN JOSE CA 95110 (408) 277-8626 timm.borden@ci.sj.ca.us

For: CITY OF SAN JOSE

Juan Pantoja Engineer HELT ENGINEERING 2930 UNION AVENUE BAKERSFIELD CA 93305 (805) 323-6045

Renee Berlin Director-Arterials/Signals & Goods Mngt. METROPOLITAN TRANSPORTATION AUTHORITY ONE GATEWAY PLAZA MS-99-22-3 LOS ANGELES CA 90012-2952 (213) 922-3035 Lou Cluster Public Projects Engineer SOUTHERN CALIFORNIA REGIONAL RAIL AUTH 700 SOUTH FLOWER STREET, 26TH FLOOR LOS ANGELES CA 90017-4101 (213) 452-0217

clusterl@scrra.net
For: SOUTHERN CALIFORNIA REGIONAL RAIL
AUTHORITY

Richard Gonzales Senior Public Projects Engineer UNION PACIFIC RAILROAD COMPANY 19100 SLOVER AVENUE BLOOMINGTON CA 92316 (909) 879-6264

Rudy San Miguel Manager Of Public Projects WILSON & COMPANY 1335 E. COOLEY DRIVE, SUITE B COLTON CA 92324 (909) 423-0980

APPENDIX B (Page 1)

FORMULA FOR CROSSING NOMINATED FOR SEPARATION OR ELIMINATION

$$P = V (T + 0.1 \times LRT) (AH + BD)$$

$$C \times F + SCF$$

Where:

P - Priority Index Number

V - Average 24-Hour Vehicular Volume (1 point per vehicle)

C - Total Separation Project Costs (1 point per thousand dollars)

T - Average 24-Hour Train Volume (1 point per train)

LRT - Average 24-Hour Light Rail Train Volume (1 point per train)

F - Cost Inflation Factor based on the Current Construction Cost Index (8.32)

AH - Accident History (up to 3 points per accident)

BD - Crossing Blocking Delay (up to 10 points)

SCF - Special Conditions Factor = VS+RS+CG+PT+OF

VS - Vehicular Speed Limit (up to 5 points)

RS - Railroad Prevailing Maximum Speed (up to 7 points)

CG - Crossing Geometrics (up to 17 points)

AR - Alternate Route Availability (up to 5 points)

PT - Passenger Trains (up to 10 points)

• Other Factors: secondary accidents, emergency vehicle usage, passenger buses, school buses, trains carrying hazardous materials trains and trucks, and community impact (up to 18 points)

APPENDIX B (Page 2)

 ${f F}={f Cost\ Inflation\ Factor}$ - the inflation factor "F" is determined by comparing the 1976 inflation factor with the changes in the construction cost index (CCI) from 1976 to the current investigation year (1999) found in the ENR (Engineering News Record) journal. The calculation is as follows:

 $F = CCI ('75-'76) \times '75-'76 "f"$ CCI (Current Year)

Where, the CCI for 1975-76 is 2100,

"f" - cost inflation factor for 1975-76 is 24, and

the average CCI for 1999 is 6060,*

therefore; the new F for this OII is $(2100 \times 24) / 6060 = 8.32$

*The average CCI for 1999 is the sum from January to December (72714) / 12 = 6060 per the following ENR data:

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CCI	6000	5992	5986	6008	6006	6039	6076	6091	6128	6134	6127	6127

AH = Accident History (last 10 years from application filing due date)

The Commission's FORM A is the record for reportable accidents for each crossing under jurisdiction. The AH points will be based on accidents that involve trains at the crossing. For each accident Staff assigns points based on the following:

Points = $(1 + 2 \times No. \text{ Killed} + No. \text{ Injured}) \times \text{CPF}$ CPF = The Crossing Protection Factor is based on warning devices at crossing.

STANDARD	9	8	3	1
CPF	1.0	0.4	0.2	0.1

Note 1: No more than three points shall be allowed for each accident prior to modification by the protection factor.

Note 2: Each accident is rated separately and modified by a factor based on the warning devices in existence at time of the accident.

APPENDIX B (Page 3)

BD = **Blocking Delay Per Train** (The time in which vehicular traffic is delayed to allow a train to pass at a crossing.) The blocking delay, for a typical day, is the elapse time in minutes when trains pass the crossing. The delay is measured from the point that the warning devices are activated at the crossing and the time after the train has cleared the crossing and the warning devices are reset. The average BD points are the total delay time divided by the total number of trains observed (10 points max).

VS = Vehicular Speed Limit - Posted Speed Limit

SPEED (mph)	0-30	31-35	36-40	41-45	46-50	51+
POINTS	0	1	2	3	4	5

RS = **Railroad Maximum Speed**

SPEED-MPH	0-25	26-35	36-45	46-55	56-65	66-75	76-85	86+
POINTS	0	1	2	3	4	5	6	7

CG = **Crossing Geometrics** - 0 - 17 points are assigned to each crossing based on the relative severity of physical conditions, i.e. grade, alignment, site distance, track skew angle, traffic signals, entrances and exits, etc.

AR = **Alternate Route Availability** - The AR is the nearest crossing available that vehicles may cross if the highway-rail grade crossing is blocked by train(s). The alternate route distance is the roadway distance between the blocked crossing and the available crossing measured in feet. The AR points are determined by dividing the distance (in feet) by 1000. A maximum of 5 points is assigned to AR distances greater than 5000 ft.

PT = **Passenger Trains** – Additional points are given to projects that have passenger trains travelling through the crossing based on the following:

NO. OF	1-2	3-5	6-10	11-20	21-30	31-40	41-50	51-60	61-70	70+
TRAINS										
POINTS	1	2	3	4	5	6	7	8	9	10

APPENDIX B (Page 4)

OF = Other Factors- Other Factors are valued in a range from 0 to 18 points based on:

CATEGORY	POINTS
SECONDARY ACCIDENTS	0-3
EMERGENCY/ OTHER VEHICLE USAGE	0-3
PASSENGER BUSES	0-3
HAZ-MAT TRAINS & TRUCKS*	0-3
COMMUNITY IMPACT	0-3
SCHOOL BUSES	0-3

^{*} Hazardous Material Trains & Trucks must display the placard with a clearly visible diamond-shaped sign to be counted for this category.

FORMULA FOR EXISTING SEPARATIONS NOMINATED FOR ALTERATION OR RECONSTRUCTION

$$P = \frac{V (T + 0.1 \times LRT)}{C \times F} + SF$$

Where:

P - Priority Index Number

V - Average 24-Hour Vehicular Volume (1 point per vehicle)

T - Average 24-Hour Train Volume (1 point per train)

LRT - Average 24-Hour Light Rail Train Volume (1 point per train)

C - Total Separation Project Costs (1 point per thousand dollars)

F - Cost Inflation Factor (8.32)

SF - Separation Factor = WC + HC + SR + AS + POF + AP + DE

WC - Width Clearance (up to 10 points)

HC - Height Clearance (up to 10 points)

SR - Speed Reduction (up to 5 points)

AS - Accidents at or near structure (0.1 pt per accident)

POF - Probability of Failure (up to 10 points)

AP - Accident Potential (up to 10 points)

DE - Delay Effects (up to 10 points)

APPENDIX B (Page 5)

 ${f F}={f Cost\ Inflation\ Factor\ }$ the inflation factor "F" is determined by comparing the 1976 inflation factor with the changes in the construction cost index (CCI) from 1976 to the current investigation year (1999) found in the ENR (Engineering News Record) journal. The calculation is as follows:

$$F = CCI ('75-'76) \times '75-'76 "f"$$

CCI (Current Year)

Where, the CCI for 1975-76 is 2100,

"f" - cost inflation factor for 1975-76 is 24 and

the average CCI for 1999 is 6060,

therefore; the new F for this OII is $(2100 \times 24) / 6060 = 8.32$

The average CCI for 1999 is the sum from January to December (72714) / 12 = 6060, per the following ENR Data:

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CCI	6000	5992	5986	6008	6006	6039	6076	6091	6128	6134	6127	6127

 $\mathbf{SF} = \mathbf{Separation} \ \mathbf{Factor} = \mathbf{WC} + \mathbf{HC} + \mathbf{SR} + \mathbf{AS} + \mathbf{PF} + \mathbf{AP} + \mathbf{DE}$

WC = Width Clearance is determined by bridge width (in feet) and the number of traffic lanes in existence (N):

If the Width is:	POINTS
16'+12(N)	0
12' but less than 16' + 12(N)	2
8' but less than 12' + 12(N)	4
Less than 8'+12(N)	6
11(N)	8
Less than 11(N)	10

APPENDIX B

(Page 6)

HC = Separation Height Clearance is determined by the height clearance from center of traffic lane and bridge (Underpass) or from top of rail and bridge (Overpass).

2	Underpass
Height (feet)	Points
15' and above	0
14' but less than 15'	4
13' but less than 14'	8
Less than 13'	10

	Overpass
Height (feet)	Points
22.5' and above	0
20' but less than 22.5'	4
18' but less than 20'	8
Less than 18'	10

SR = Speed Reduction or Slow Order

	Points
None	0
Moderate	2
Severe	5

AS = Accidents at or Near Structure during the last 10 years from the application due date (October 1, 1989 to October 1, 1999). The AS points are determined by dividing the total number of occurrences by 10 and rounded off to the nearest tenth of a point (86 occurrences = 86/10= 8.6 points).

PF = Probability of Failure has a 10 point maximum taking structure age into account.

	Points
Minimal/None	0
Slight	2-3
Moderate	4-6
Extreme	7-10

APPENDIX B (Page 7)

AP = Accident Potential – A maximum of 10 points is given for the geometrics at the separation like: road curvature, signage, and illumination.

	Points
None	0
Slight	2-3
Moderate	4-6
Extreme	7-10

DE = Delay Effects – A maximum of 10 points is given to conditions that cause traffic delays at the separation like road bottlenecks, slow vehicle usage (trucks, agriculture equipment, lack of left or right turn lanes or other traffic congestion.

	Points
None	0
Slight	2-3
Moderate	4-6
Extreme	7-10

(END OF APPENDIX B)

APPENDIX C – EXHIBIT 73

STATE OF CALIFORNIA GRAY DAVIS, Governor

PUBLIC UTILITIES COMMISSION

320 WEST 4TH STREET, SUITE 500 LOS ANGELES, CA 90013



June 7, 2000

Re: I.99-07-001 - Grade Separation Priority List for FY 2000-01 and FY 2001-02 Late-filed Exhibit 73

To: All Parties of Record

The Department of Transportation (Caltrans) notified the Commission staff that the following four projects are receiving allocated funds this fiscal year 1999-2000:

PUC	Agency	Crossing
ID		Location
B-516.9	City of Montclair	Ramona Avenue
E-404.24B	City of	Auto Center Drive (Johnson
	Ventura	Dr)
B-210.3	Fresno	Chestnut Avenue
	County	
B-305.9	Kern County	7th Standard Road

Subsequently, the four projects are to be removed from the proposed Separation of Highway-Rail Grade Crossing Priority List for Fiscal Years 2000-2001 and 2001-2002.

Enclosed is the Revised Exhibit 73, incorporating these changes. ATTACHMENT 1, REVISED APPENDIX A, REVISED APPENDIX B, and REVISED APPENDIX C of Revised Exhibit 73 supercede those in Late Filed Exhibit 73.

If you have any questions, you may contact me at (213) 576-7078 or e-mail rxm@cpuc.ca.gov.

Sincerely,

Rosa Muñoz Transportation Engineer

Enclosure

C: Administrative Law Judge Patricia A. Bennett

ATTACHMENT 1 - Changes To Application Data for Fiscal Years 2000-2001 & 2001-2002 (Page **1 of 3**)

Exhibit	PUC ID	Agency	Crossing Location	Exhibit 1 Priority Index	Changes	Revised Priority Index
2	101VY-1.17	LOS ANGELES	NORTH MAIN ST	55.62	Change T to 117 Change PT to 72 for 10 pts	56.09
3	101EB- 484A 101VY- 1.36A	LOS ANGELES (2 Xings)	North Spring St & North Spring St	49.42	Change T to 117	53.47
4	B-485.8	LOS ANGELES	VALLEY BLVD	123.38	Change project to Underpass	123.38
5	1BK-495.4	DOWNEY	BROOKSHIRE AVE	49.84	BD verified, no change O to 303 for 2 pts	51.84
7	PROPOSE D	TORRANCE	DEL AMO BLVD	116.68	Change C to 18,722 Change BD to 5	42.60
8	2B-21.20	CORONA	MCKINLEY ST	37.99	Change V to 33,720 Change C to 17,250 Change BD to 1.6 Change PB to 23 for 1 pt Change SB to 20 for 1 pt Change H to 770 for 3 pts Change O to 3 for 1 pt Change SA to 53 for 3 pts Change CI to 3	53.61
11	OR-182.9	IRVINE	SAND CANYON AVE	93.71	Change SA to 9 for 1 pt No change for Priority Index	93.71
12	3-53.1			75.64	Change V to 16,190 Change C to 13,300 Change VS to 43.6 for 3 pts Change RS to 62.18 for 4 pts Change CG to 21.92 Change SA to 8 for 1 pt Change SB to 25 for 2 pts	100.85
14	B-281.2	DELANO	GARCES HWY	40.06	Change C to 7,095 Change BD to 3.43 Change CI to 3	33.34
15	B-280.2	DELANO	CECIL AVE	80.17	Change C to 7,848 Change BD to 3.43 Change CI to 3	61.93
21	B-517.4	MONTCLAIR	MONTE VISTA AVE	128.18	Change V to 12,514 Change BD to 3.52	133.46
24	B-613.0	COACHELLA	DILLON RD	60.35	Change V to 14,269	68.08
27	B-413.7	PALMDALE	PALMDALE BLVD (SR138)	49.24	Change T to 60 Change PT to 15 for 4 pts Evaluate as single year nomination	71.94
31	36-7.4	CHULA VISTA	E ST	32.74	Change V to 28,643 Change O to 90 for 1 pt Change PB to 0 for 0 pts Change SB to 2 for 1 pt Change H to 1 for 1 pt	40.62
41	VY-69.33	LOS ANGELES CO	SIERRA HWY	64.84	Change T to 60 Change VS to 55 for 5 pts Change RS to 65 for 4 pts Change PT to 15 for 4 pts	153.23

ATTACHMENT 1 - Changes To Application Data for Fiscal Years 2000-2001 & 2001-2002

Change AH to 11

(Page **2 of 3**)

Exhibit PUC ID Agency C		Crossing Location	Exhibit 1 Priority Index	Changes	Revised Priority Index		
44	VY-66.92	LOS ANGELES CO	AVENUE S	29.52	Change T to 22 Change PT to 15 for 4 pts	31.29	
46	2-1114.7 2-1113.5	BNSF/ Alternate for San Joaquin Consolidation	CONSOLIDATION (2 Xings) Mariposa Rd & Kaiser Rd	67.12	Change V to 6,777 Change C to 6,439	72.48	
47	2-1112.2 2-1113.5 2-1114.7 2-1108.3	SAN JOAQUIN CO	CONSOLIDATION (4 Xings) Jack Tone Rd Kaiser Rd Mariposa Rd Wagner Rd	270.79	Change V to 10,511 Change C to 10,444 Change AH to 7.5	86.91	
48	D-92.8	SAN JOAQUIN CO	WEST LANE	56.73	Change CI to 3	58.73	
50	2-885.6 2-885.6 2-885.75 2-885.77 2-885.95 2-886.2 2-886.4	BAKERSFIELD	BEALE-TRUXTON-BAKER (7 Xings) 21 st St Gage St Beale Ave Truxtun Ave Baker St Tulare St Sonora St	151.85 Change AR to 3.73		152.95	
52	B-308.9	KERN COUNTY	OLIVE DR	54.23	Change AR to 4.9	55.13	
55	2-889.5	SHAFTER	7TH STANDARD	46.17	Change O to 24 for 1 pt	47.17	
56	C-258.0	REDDING	SOUTH ST	43.11	Change AR to 3 Change CI to 3	47.36	
59	E-64.0 E-64.7 E-65.2	SAN JOSE	CONSOLIDATION (3 Xings) Bailey Ave Laguna Ave Richmond Ave	64.10	Change V to 6,298	63.02	
63	4-84.8	LATHROP	LATHROP RD	91.59	Change T to 26 Change BD to 3.06 Change PT to 6 for 3 pts	64.34	
64	D-82.1	LATHROP	LATHROP RD	92.93	Change T to 20 Chang BD to 3.87 Change PT to 0 for 0 pts	54.29	
66	BB-0.4B	WEST SACRAMENTO	WEST CAPITAL AVE/Permanent	37.26	Change POF to 9 correction	39.26	
67	BB-0.4B	WEST SACRAMENTO	WEST CAPITAL AVE Emergency Repair	51.31	Change DE to 6 correction	54.37	
69	4-132.9	SRTD (1)	FLORIN RD	72.54	Change LT to 0	50.98	
70	2-1180.41- B	HERCULES	SYCAMORE AVE	32.46	Change T to 35	27.43	

ATTACHMENT 1 – Changes To Application Data for Fiscal Years 2000-2001 & 2001-2002 (Page **3 of 3**)

PUC ID	Agency	Crossing Location	Exhibit 1 Priority Index	Recommended to Dismiss
BAM-386.9	CALIFORNIA CITY	CALIFORNIA CITY BLVD	21.98	Dismiss non-appearance
SG-41.10	RANCHO CUCAMONGA	HAVEN AVE	34.59	Dismiss non-appearance
2-71.0 BB-480.1	SAN BERNARDINO CO	(2 Xings) Glen Helen Parkway Glen Helen Parkway	35.80	Dismiss non-appearance
2-30.6B	SAN BERNARDINO CO	NATIONAL TRAILS HWY	39.55	Dismiss non-appearance
NWP498- 6555	SONOMA CO	OLD REDWOOD HWY	34.78	Dismiss non-appearance
83E-10.03	SRTD (1)	BRADSHAW RD	63.67	Dismiss – exclusive light-rail train operations

⁽¹⁾ SRTD - Sacramento Regional Transit District

REVISED APPENDIX A – Priority List by Ranking for Fiscal Years 2000-2001 & 2001-2002 (Page ${\bf 1}$ of ${\bf 2}$)

Rank						
4	0.00.4	LOC ANCELES CO	LOCATION	457.47		
1	3-22.4		NOGALES ST	157.47		
2	VY-69.33	LOS ANGELES CO	SIERRA HWY	153.23		
3	2-885.6 2-885.6 2-885.75 2-885.77	BAKERSFIELD	BEALE-TRUXTON-BAKER (7 Xings) 21 st St Gage St Beale Ave Truxtun Ave	152.95		
	2-885.95 2-886.2		Baker St Tulare St			
4	2-886.4	MONITOLAID	Sonora St	400.40		
<u>4</u> 5	B-517.4	MONTCLAIR FREMONT	MONTE VISTA AVE	133.46 126.49		
3	DA-30.5 DA-30.9 DA-32.1 4G-2.6 SA-32.65 DA-32.7 DA-32.8 4G-3.2 DAB-42.4B DA-29.9B	PREMIONI	CONSOLIDATION (10 Xings) Walnut Ave Stevenson Blvd Paseo Padre Pkwy Paseo Padre Pkwy High St Main St Washington Blvd Washington Blvd Mowry Ave Mowry Ave	120.49		
6	B-485.8	LOS ANGELES	VALLEY BLVD	123.38		
7	3-23.4	LOS ANGELES CO	FAIRWAY DR	107.43		
8	3-53.1	RIVERSIDE	JURUPA AVE	100.85		
9	OR-182.9	IRVINE	SAND CANYON AVE	93.71		
10	2-1112.2 2-1113.5 2-1114.7 2-1108.3	SAN JOAQUIN CO	CONSOLIDATION (4 Xings) Jack Tone Rd Kaiser Rd Mariposa Rd Wagner Rd	86.91		
11	2-1114.7 2-1113.5	BNSF Alternate for San Joaquin	CONSOLIDATION (2 Xings) Mariposa Rd Kaiser Rd	72.48		
12	B-413.7	PALMDALE	PALMDALE BLVD (SR138)	71.94		
13	BBJ-497.28 2-153.1	LOS ANGELES CO	(2 Xings) Norwalk Blvd Norwalk Blvd	69.54		
14	B-311.8	BAKERSFIELD	Q ST	68.29		
15	B-613.0	COACHELLA	DILLON RD	68.08		
16	4-84.8	LATHROP	LATHROP RD	64.34		
17	3-17.2	LOS ANGELES CO	TURNBULL CANYON RD	63.45		
18	E-64.0 E-65.2 E-64.7	SAN JOSE	CONSOLIDATION (3 Xings) Bailey Ave Richmond Ave Laguna Ave	63.02		
19	B-280.2	DELANO	CECIL AVE	61.93		
20	D-92.8	SAN JOAQUIN CO	WEST LANE	58.73		

REVISED APPENDIX A – Priority List by Ranking for Fiscal Years 2000-2001 & 2001-2002 (Page $2\ of\ 2$)

Rank	PUC ID	AGENCY	CROSSING	Priority Index
			LOCATION	
21		FREMONT	CONSOLIDATION (6 Xings)	57.59
	DA-32.1	Alternate	Paseo Padre Pkwy	
	4G-2.6		Paseo Padre Pkwy	
	SA-32.65		High St	
	DA-32.7		Main St	
	DA-32.8		Washington Blvd	
	4G-3.2		Washington Blvd	
22	0.4.0.4	LOS ANGELES CO	(2 Xings)	56.18
	3A-3.4		Bandini Blvd	
00	2-147.1C	LOO ANOFLEO	Bandini Blvd	50.00
23	101VY-1.17	LOS ANGELES	NORTH MAIN ST	56.09
24	E-417.93	CAMARILLO	ADOLFO RD	55.49
25	B-308.9	KERN COUNTY	OLIVE DR	55.13
26	BB-0.4B	WEST	WEST CAPITAL AVE	54.37
o=	5.00.4	SACRAMENTO	Emergency Repair	
27	D-82.1	LATHROP	LATHROP RD	54.29
28	2B-21.20	CORONA	MCKINLEY ST	53.61
29	10155 1011	LOS ANGELES	(2 Xings)	53.47
	101EB-484A		North Spring St	
	101VY-1.36A	04445	North Spring St	
30	E-419.92	CAMARILLO	LAS POSAS/UPLAND	52.16
31	BK-495.4	DOWNEY	BROOKSHIRE AVE	51.84
32	4-132.9	SRTD	FLORIN RD	50.98
33	DA-36.2	FREMONT	(2 Xings)	49.85
	4G-6.7	(WARREN AVE	
34	B-393.9	KERN COUNTY	ROSAMOND BLVD	49.40
35	C-258.0	REDDING	SOUTH ST	47.36
36	2-889.5	SHAFTER	7TH STANDARD	47.17
37	PROPOSED	TORRANCE	DEL AMO BLVD	42.60
38	BBH-487.42	LOS ANGELES CO	1	42.43
39	108AE-177.0	TEHAMA COUNTY	SOUTH AVE	40.97
40	36-7.4	CHULA VISTA	E ST	40.62
41	BB-0.4-B	WEST	WEST CAPITAL AVE	39.26
		SACRAMENTO	Permanent	
42	1C-238.3	TEHAMA COUNTY	BOWMAN RD	36.99
43	B-281.2	DELANO	GARCES HWY	33.34
44	VY-66.92	LOS ANGELES CO	AVENUE S	31.29
45	B-568.8	BANNING	HARGRAVE ST	30.62
46	2-1180.41-B	HERCULES	SYCAMORE AVE	27.43
47	3A-7.8	LOS ANGELES CO	FIRESTONE BLVD	27.32
48	BBH-492.6	LOS ANGELES CO	EL SEGUNDO	26.64
49	2-1180.40B	HERCULES	PALM AVE	24.12
50	PROPOSED	BAKERSFIELD	HAGEMAN RD	21.78
51	36-9.7	CHULA VISTA	PALOMAR ST	21.41
52	36-7.9	CHULA VISTA	H ST	20.40
53	PROPOSED	LOS ANGELES CO	FLORES ST	13.87
54	087-68-3	NAPA VALLEY	IMOLA AVE SR 121	13.23
		WINE TRAIN		

REVISED APPENDIX B – Nominations in Alphabetical Order with Priority Index and Rank (Page 1 of 2)

ACENCY	CDOSCING		Train Light Blkng Accd Cost SCF Priority						Delouis	. Danie	
AGENCY	CROSSING LOCATION	Vehicle Volume	ıraın	Light Rail	Delay		(000)	SCF /SF	Priority Index	Kank	
							. ,				
		V	Т	LT	BD	AH	С				
BAKERSFIELD	BEALE-TRUXTON- BAKER (7 Xings)	19870	39	0.0	5.24	12	17680	62.13	152.95	3	
BAKERSFIELD	HAGEMAN RD	15126	6	0.0	1.50	0	2820	15.98	21.78	50	
BAKERSFIELD	Q ST	9252	36	0.0	4.87	3	7145	24.20	68.29	14	
BANNING	HARGRAVE ST	2710	36	0.0	6.90	0	6960	19.00	30.62	45	
BNSF	Mariposa /Kaiser ALT (2 Xings)	6777	38	0.0	1.44	6	6439	36.72	72.48	11	
CAMARILLO	ADOLFO RD	18019	34	0.0	1.96	1	7390	26.00	55.49	24	
CAMARILLO	LAS POSAS/UPLAND	18046	34	0.0	1.96	0	6522	30.00	52.16	30	
CHULA VISTA	E ST	28643	2	20.6	0.53	4	15381	17.70	40.62	40	
CHULA VISTA	H ST	23546	2	20.6	0.53	0	17381	18.45	20.40	52	
CHULA VISTA	PALOMAR ST	41480		20.6			1				
COACHELLA	DILLON RD	14269	36	0.0							
CORONA	MCKINLEY ST	33720	51	0.0	1.60	0	17250	34.44	53.61	28	
DELANO	CECIL AVE	18000	18	0.0	3.43	4	7848	25.06	61.93	19	
DELANO	GARCES HWY	9957	18	0.0	3.43	1	7095	19.89	33.34		
DOWNEY	BROOKSHIRE AVE	18766	11	0.0	10.00	0	8315	22.00	51.84	31	
FREMONT	Walnut Ave & Others (10 Xings)	84598	11	0.0	8.82	0	28230	90.30	126.49	5	
FREMONT	Paseo Padre Pkwy + ALT (6 Xings)	49976	11	0.0	8.82	0	39935	43.00	57.59	21	
FREMONT	WARREN AVE (2 Xings)	11725	49	0.0	2.31	2	10688	22.00	49.85	33	
HERCULES	PALM AVE	5000	35	0.0	0.00	0	6740	21.00	24.12	49	
HERCULES	SYCAMORE AVE	8218	35			0	7800				
IRVINE	SAN CANYON AVE	22000	62	0.0	0.89	4	15810	43.00	93.71	9	
KERN CO.	OLIVE DR	17200	44	0.0	2.07	0	7070			25	
KERN CO.	ROSAMOND BLVD	13400	18	0.0	2.90	2	6720	28.26	49.40	34	
LATHROP	LATHROP RD	10497	20	0.0	3.87	4	6150	22.00	54.29	27	
LATHROP	LATHROP RD	10497	26	0.0	3.06	5	6720	25.00	64.34	16	
LOS ANGELES	NORTH MAIN ST	14188	117	0.0	2.76	1	55040	42.46	56.09	23	
LOS ANGELES	NORTH SPRING ST (2 Xings)	19676	117	0.0	0.00	0	10146	26.20	53.47	29	
LOS ANGELES	VALLEY BLVD	29203	68	0.0	3.09	9	30700	29.39	123.38	6	
LOS ANGELES CO.	AVENUE S	21032	22	0.0	1.31	3	28243	22.80	31.29	44	
LOS ANGELES CO.	BANDINI BLVD (2 Xings)	28453	39	0.0	1.91	2	29338	38.40	56.18	22	
LOS ANGELES CO.		15332	2	23.6	0.84	0	24185	25.00	26.64	48	
LOS ANGELES CO.	FAIRWAY DR	33205	51	0.0	2.00	3	13056	29.48	107.43	7	
LOS ANGELES CO.	FIRESTONE BLVD	66310	14	0.0	1.60	0	25074	20.20	27.32	47	
LOS ANGELES CO.	FLORES ST	10850	13	0.0	1.56	0	9630	11.12	13.87	53	
LOS ANGELES CO.		43290		0.0							
LOS ANGELES CO.		23247	110	0.0							
LOS ANGELES CO.		12867	60	0.0	1.37	11	9216	28.68	153.23	2	
LOS ANGELES CO.		35021	20								

REVISED APPENDIX B – Nominations in Alphabetical Order with Priority Index and Rank (Page 2 of 2)

AGENCY	CROSSING LOCATION	Vehicle Volume	Train	Light Rail	Blkng Delay	Accd Hist	Cost (000)	SCF /SF	Priority Index	Rank
		V	т	LT	BD	AH	С			
LOS ANGELES CO.	TURNBULL CANYON RD	22136	51	0.0		2	16974	30.36	63.45	17
MONTCLAIR	MONTE VISTA AVE	12514	77	0.0		4	8500	31.00	133.46	4
NAPA VALLEY WINE TRAIN	IMOLA AVE SR 121	28200	1	0.0	1.67	0	2000	10.40	13.23	54
PALMDALE	PALMDALE AVE	33260	60	0.0			15030	32.84		12
REDDING	SOUTH ST	12405	39	0.0	3.13	0	7010	21.40	47.36	35
RIVERSIDE	JURUPA AVE	16190	55	0.0			13300	44.92	100.85	
SAN JOAQUIN CO.	WEST LANE	22873	13	0.0	3.13	5	9100	26.80	58.73	20
SAN JOAQUIN CO.	Mariposa & Others (4 Xings)	10511	38	0.0	1.33	7.5	10444	46.32	86.91	10
SAN JOSE	Bailey Ave & Others (3 Xings)	6298	20	0.0	1.00	9	6950	41.24	63.02	18
SHAFTER	7 TH STANDARD RD	5300	62	0.0	2.09		7454	30.80		36
SRTD (1)	FLORIN RD	37022	16	0.0			10000	23.00		32
TEHAMA COUNTY	BOWMAN RD	5116	27	0.0	1.30		2484	28.30	36.99	42
TEHAMA COUNTY	SOUTH AVE	4970	23	0.0			2558	27.00		39
TORRANCE	DEL AMO BLVD	29000	29	0.0			18722	15.60		37
WEST SACRAMENTO	WEST CAPITAL AVE Permanent	7848	6	0.0	0.00	0	5320	38.20		41
WEST SACRAMENTO	WEST CAPITAL AVE Emergency Repair	7848	6	0.0	0.00	0	350	38.20	54.37	26

⁽¹⁾ SRTD – Sacramento Regional Transit District

REVISED APPENDIX C – *Nominations in Alphabetical Order with SCF/SF* (Page 1 of 3)

Agency	Crossing Location	CG	SB	РВ	Н	0	PT	AR	VS	RS	SA	CI	TOTAL SCF
BAKERSFIELD	BEALE-TRUXTON- BAKER (7 Xings)	46.40	2	1	1	1	0	3.73	3	0	1.00	3	62.13
BAKERSFIELD	HAGEMAN RD	2.48	1	1	1	1	0	3.50	5	0	0.00	1	15.98
BAKERSFIELD	Q ST	12.60	1	1	0	1	0	1.60	1	3	0.00	3	24.20
BANNING	HARGRAVE ST	6.00	1	0	0	0	1	5.00	1	3	1.00	1	19.00
BNSF	Mariposa Rd & Kaiser (2 Xings)	10.72	1	1	0	3	3	5.00	5	5	1.00	2	36.72
CAMARILLO	ADOLFÓ RD	5.00	1	1	0	0	3	5.00	2	4	3.00	2	26.00
CAMARILLO	LAS POSAS/UPLAND RD	7.00	1	1	0	1	3	5.00	3	4	3.00	2	30.00
CHULA VISTA	E ST	7.00	1	0	1	1	0	0.70	1	3	1.00	2	17.70
CHULA VISTA	H ST	9.00	1	1	1	1	0	0.45	1	1	1.00	2	18.45
CHULA VISTA	PALOMAR ST	6.60	3	1	1	1	0	0.09	1	1	1.00	2	17.69
COACHELLA	DILLON RD	9.44	1	0	0	0	1	5.00	2	5	2.00	1	26.44
CORONA	MCKINLEY ST	8.44	1	1	3	1	4	5.00	1	4	3.00	3	34.44
DELANO	CECIL AVE	5.44	2	1	1	3	0	2.62	1	4	2.00	3	25.06
DELANO	GARCES HWY	4.43	2	1	1	2	0		0	4		3	19.89
DOWNEY	BROOKSHIRE AVE	7.00	1	2	0	2	0		1	0		3	22.00
FREMONT	Walnut Ave & Others (10 Xings)	48.00	1	2	1	1	0	3.20	1	1	3.00	3	90.30
	+ Mowry					8	0	4	1.1	4	5	4	
FREMONT	Paseo Padre Pkwy + ALT (4 Xings)	32.80	0	0	0	0	0	3.20	1	1	2.00	3	43.00
FREMONT	WARREN AVE (2 Xings)	9.00	1	1	1	0	0	5.00	1	1	1.00	2	22.00
* HERCULES	PALM AVE					6	0	3	0	4	6	2	21.00
* HERCULES	SYCAMORE AVE					10	0	0	0	4	4	5	23.00
IRVINE	SAN CANYON AVE	8.00	3	2	0	3	8	5.00	4	7	1.00	2	43.00
KERN CO	OLIVE DR	8.60	2	1	1	1	0	4.90	3	4	2.00	1	28.50
KERN CO	ROSAMOND BLVD	8.26	3	1	1	0	0	5.00	3	4	1.00	2	28.26
LATHROP	LATHROP RD	6.00	3		0	0	0	5.00	1	4	0.00	2	22.00
LATHROP	LATHROP RD	6.00	3	1	0	0	3	5.00	1	4	0.00	2	25.00
LOS ANGELES	NORTH MAIN ST	22.16	2	2	0	1	10	1.30	1	0	1.00	2	42.46
* LOS ANGELES	NORTH SPRING ST (2 Xings)					10	0	5	0.2	4	4	3	26.20
LOS ANGELES	VALLEY BLVD	11.16				0	1	4.23	2	1	1.00	2	29.39
LOS ANGELES CO	AVENUE S	2.80			1	0		5.00	5		0.00	1	22.80
LOS ANGELES CO	BANDINI BLVD	17.00	2	3	3	1	0	4.40	2	5	0.00	1	38.40
	(2 Xings)												
LOS ANGELES CO		12.60	3	2	1	1		1.40	1		0.00	1	25.00
LOS ANGELES CO		8.48	1	1	1	1		5.00	2	5	0.00	1	29.48
LOS ANGELES CO		9.00	1	3	2	1	0	2.20	1	0	0.00	1	20.20
LOS ANGELES CO	FLORES ST	3.12	0		0	0	0		1	0	0.00	2	11.12
LOS ANGELES CO		8.32	3		2	1	4		1		0.00	1	31.32
LOS ANGELES CO	NORWALK BLVD (2 Xings)	15.40	1	1	2	1	7	3.40	3	3	0.00	2	38.80
LOS ANGELES CO		6.68	0	1	1	0	4	5.00	5	4	0.00	2	28.68
* KEY FOR EXISTIN						WC	HC	SR	AS	POF	AP	DE	SF

REVISED APPENDIX C – *Nominations in Alphabetical Order with SCF/SF* (Page 2 of 3)

Agency	Crossing Location	CG	SB	РВ	Н	0	PT	AR	'	VS	RS	SA	CI	TOTAL SCF
LOS ANGELES CO	SLAUSON AVE	15.80	2	3	1	1	(5.	00	1	0	0.00	1	29.80
LOS ANGELES CO	TURNBULL CANYON	9.56	1	1		1	4		30	1	5	1.00		
MONTCLAIR	MONTE VISTA AVE	9.00	2	1	0	0		5.	00	2	4	2.00	3	31.00
NAPA VALLEY WINE TRAIN	IMOLA AVE SR 121	2.40	0	0	0	0	(5.	00	2	0	0.00	1	10.40
PALMDALE	PALMDALE AVE	6.24	3	1	0	3		1 2.	60	2	6	3.00	2	32.84
REDDING	SOUTH ST	10.40	1	1	0	0	,	3.	00	0	2	0.00	3	21.40
RIVERSIDE	JURUPA AVE	21.92			_		4	ŀ 5.	00	3	4	1.00		
SAN JOAQUIN CO	WEST LANE	6.80	2	1	1	2	(5.	00	1	2	3.00	3	26.80
SAN JOAQUIN CO	Mariposa Rd & Others (4 Xings)	20.32	1	1	0	3	(5.	00	5	3	2.00	3	46.32
SAN JOSE	Bailey Ave & Others (3 Xings)	21.24	1	0	0	0	(5.	00	2	6	1.00	2	41.24
SHAFTER	7TH STANDARD RD	6.80	1	1		1		5.	00	5	5		1	30.80
SRTD (1)	FLORIN RD	8.00	2	2	0	0	(5.	00	2	2	0.00	2	23.00
TEHAMA COUNTY	BOWMAN RD	9.80	1	0		_		5.	00	5	5			
TEHAMA COUNTY	SOUTH AVE	6.00	1	1	0			5.	00	5	5	1.00	2	27.00
TORRANCE	DEL AMO BLVD	4.60	1	1	1	2	(4.	00	1	0	0.00	1	15.60
* W. Sacramento	WEST CAPITAL AVE Permanent					6	8	3	3	0.2	9	6	6	38.20
* W. Sacramento	WEST CAPITAL AVE Emergency Repair					6				0.2	9			
* KEY FOR EXISTIN	IG SEPARATIONS					WC	HC	SR	1	SA	POF	AP	DE	SF

⁽¹⁾ SRTD - Sacramento Regional Transit District

REVISED APPENDIX C – *Nominations in Alphabetical Order with SCF/SF* (Page 3 of 3)

For Special Conditions Factor - SCF

CG – Crossing Geometrics H- Hazmat Trains/Trucks AR-Alternate Route
SB – School Buses O-Other Vehicles VS – Vehicular Speed Limit
PB- Passenger Buses PT – Passenger trains RS – Rail Speed Limit
SA – Secondary Accidents CI – Community Impact

For Separation Factor - SF

WC – Width Clearance HC-Height Clearance SR – Speed Reduction
AS – Accidents Near Structure POF – Probability of Failure
AP – Accident Potential DE – Delay Effects

(END OF APPENDIX C)